(I)

What is claimed is:

1. A compound of the formula:

5 or

wherein:

R⁸ is selected from the group of C₁–C₁₂ alkyl, C₁–C₁₂ heteroalkyl, C₁–C₁₂

haloalkyl, C₂–C₁₂ alkenyl, C₂–C₁₂ heteroalkenyl, C₂–C₁₂ haloalkenyl, C₂–C₁₂ alkynyl,

C₂–C₁₂ heteroalkynyl, C₂–C₁₂ haloalkynyl, aryl and heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃,

CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

R⁹ is selected from the group of hydrogen, F, Cl, Br, I, CN, C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, C₂–C₈ alkenyl or cycloalkenyl, C₂–C₈ heteroalkenyl, C₂–C₈ haloalkenyl, C₂–C₈ haloalkynyl, aryl and

heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

- R^{10} and R^{11} each independently is hydrogen, or C_1 – C_4 alkyl; or a pharmaceutically acceptable salt or prodrug thereof.
- 2. A compound according to claim 1, wherein R⁸ is selected from the group of C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, C₂–C₈ alkenyl, C₂–C₈ heteroalkenyl, C₂–C₈ haloalkenyl, C₂–C₈ alkynyl, C₂–C₈ heteroalkynyl, C₂–C₈ haloalkynyl, aryl and heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.
- 3. A compound according to claim 2, wherein R⁸ is selected from the group of C₁-C₄ alkyl, C₁-C₄ heteroalkyl, C₁-C₄ haloalkyl, C₂-C₄ alkenyl, C₂-C₄ heteroalkenyl, C₂-C₄ haloalkenyl, C₂-C₄ alkynyl, C₂-C₄ heteroalkynyl, and C₂-C₄ haloalkynyl.

- 4. A compound according to claim 2, wherein R⁸ is selected from the group of aryl and heteroaryl radicals, wherein said aryl and heteroaryl radicals are optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, CN, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.
 - 5. A compound according to claim 2, wherein R⁸ is selected from the group of

 R^1 and R^2 each independently is selected from the group of hydrogen, F, Cl, Br and C_1 – C_4 alkyl;

 R^3 through R^5 each independently is selected from group of hydrogen, F, Cl, and C_1 – C_4 alkyl;

n is 0 or 1; and

Y is selected from the group of O, S, and NR¹⁰.

15

5

6. A compound according to claim 1, wherein R⁹ is selected from the group of hydrogen, F, Cl, Br, CN, C₁–C₆ alkyl, C₁–C₆ heteroalkyl, C₁–C₆ haloalkyl, C₂–C₆ alkenyl or cycloalkenyl, C₂–C₆ heteroalkenyl, C₂–C₆ haloalkenyl, C₂–C₆ alkynyl, C₂–C₆ heteroalkynyl, aryl and heteroaryl optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.

5

- 7. A compound according to claim 6, wherein R⁹ is selected from the group of hydrogen, Br, Cl, C₁-C₄ alkyl, C₁-C₄ heteroalkyl, C₁-C₄ haloalkyl, C₂-C₄ alkenyl,
 10 C₂-C₄ heteroalkenyl, C₂-C₄ haloalkenyl, C₂-C₄ alkynyl and C₂-C₄ heteroalkynyl, C₂-C₄ haloalkynyl.
- 8. A compound according to claim 6, wherein R⁹ is selected from the group of aryl and heteroaryl radicals, wherein said aryl and heteroaryl radicals are optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, CN, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.

9. A compound according to claim 6, wherein R⁹ is selected from the group of

R⁶ is selected from the group of hydrogen, F, Cl, Br, C₁–C₄ alkyl, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

R⁷ is hydrogen, F, or Cl;

R¹⁰ and R¹¹ each independently is hydrogen, or C₁–C₄ alkyl;

X is CH or N; and

Y is selected from the group of O, S, and NR¹⁰.

10. A compound according to claim 9, wherein R⁹ is

 R^6 is selected from the group of hydrogen, F, Cl, C_1 – C_4 alkyl, OMe, OEt, NHMe, and NMe₂;

R⁷ is hydrogen, F, or Cl; and

X is CH or N.

- 11. A compound according to claim 9, where R⁶ is selected from the group of F, Me, Et, OMe, OEt, SMe, and NMe₂.
- 5 12. A compound according to claim 1, wherein said compound is selected from the group of:

7,9-difluoro-5(*Z*)-benzylidene-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **10**);

7,9-difluoro-5(*Z*)-(2-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*10 chromeno[3,4-*f*]quinoline (Compound **12**);

7,9-difluoro-5(*Z*)-(2-chlorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **13**);

7,9-difluoro-5(*Z*)-(4-picolylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **14**);

7,9-difluoro-5(*Z*)-(3-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **15**);

7,9-difluoro-5(*Z*)-(4-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **16**);

7,9-difluoro-5(*Z*)-(2,5-difluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **17**);

5 7,9-difluoro-5(*Z*)-(2-methoxybenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **18**);

7,9-difluoro-5(*Z*)-(2-methyl-5-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **19**);

7,9-difluoro-5(*Z*)-(3-methyl-4-picolylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*10 chromeno[3,4-*f*]quinoline (Compound **20**);

7,9-difluoro-5(*Z*)-(2-methyl-3-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **21**);

7,9-difluoro-5(*Z*)-(3-methyl-2-picolylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **22**);

7,9-difluoro-5(*Z*)-(2,3-dimethylbenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **23**);

7,9-difluoro-5(*Z*)-cyanomethylidene-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **24**);

- 7,9-difluoro-5(Z)-hexylidene-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound **25**);
- 7,9-difluoro-5(*Z*)-(2-methoxy-5-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **26**);
- 5 7,9-difluoro-5(*Z*)-(2,4,5-trifluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **27**);
 - 7,9-difluoro-5-methylidene-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **28**);
- 7,9-difluoro-5(*Z*)-bromomethylidene-1,2-dihydro-2,2,4-trimethyl-5*H*10 chromeno[3,4-*f*]quinoline (Compound **29**);
 - 7,9-difluoro-5(Z)-(3-thienylmethylidene)-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound **30**);
 - 7,9-difluoro-5(*Z*)-(2-thienylmethylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **31**);
- (±)-7,9-difluoro-5-methoxy-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **32**);
 - (±)-7,9-difluoro-5-phenyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **33**);

- (±)-7,9-difluoro-5-(3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **34**);
- (±)-7,9-difluoro-5-(1,3-benzodioxol-5-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **35**);
- 5 (±)-7,9-difluoro-5-(4-bromophenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **36**);
 - (±)-7,9-difluoro-5-(4-chloro-3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound 37);
- (-)-7,9-difluoro-5-(4-chloro-3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-10 chromeno[3,4-*f*]quinoline (Compound 38);
 - (+)-7,9-difluoro-5-(4-chloro-3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **39**);
 - (±)-7,9-difluoro-5-(3-fluorophenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **40**);
- (±)-7,9-difluoro-5-(3-chlorophenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound 41);
 - (±)-7,9-difluoro-5-(3-bromophenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **42**);

- (±)-7,9-difluoro-5-(4-chlorophenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **43**);
- (±)-7,9-difluoro-1,2-dihydro-2,2,4,5-tetramethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **44**);
- 5 (±)-7,9-difluoro-5-(2-oxo-2-phenylethyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **45**);
 - (±)-7,9-difluoro-5-ethyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **46**);
- (±)-7,9-difluoro-5-ethenyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-10 *f*]quinoline (Compound **47**);
 - (\pm)-7,9-difluoro-5-(2-oxo-3-butenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **48**);
 - (±)-7,9-difluoro-1,2-dihydro- α , α ,2,2,4-pentamethyl-5*H*-chromeno[3,4-f]quinoline-5-ethanoate (Compound **49**);
- (±)-7,9-difluoro-5-ethynyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **50**);
 - (±)-7,9-difluoro-5-cyano-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **51**);

- (±)-7,9-difluoro-5-butyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **52**);
- (±)-7,9-difluoro-5-(2-thienyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **53**);
- 5 (±)-7,9-difluoro-5-(2-furyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4f]quinoline (Compound **54**);
 - (±)-7,9-difluoro-5-allyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **55**);
- (±)-7,9-difluoro-5-[3-(trifluoromethyl)phenyl]-1,2-dihydro-2,2,4-trimethyl-5*H*-10 chromeno[3,4-*f*]quinoline (Compound **56**);
 - Ethyl (\pm)-7,9-difluoro-1,2-dihydro- α -methylene-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline-5-propanoate (Compound **57**);
 - (±)-7,9-difluoro-1,2-dihydro- β -methylene-2,2,4-trimethyl-5*H*-chromeno[3,4- *f*]quinoline-5-propanol (Compound **58**);
- 15 (±)-7,9-difluoro-1,2-dihydro-β-methylene-2,2,4-trimethyl-5*H*-chromeno[3,4f]quinoline-5-propanol acetate(Compound **59**);
 - (\pm)-7,9-difluoro-5-(1-methylethenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **60**);

- (±)-7,9-difluoro-5-(N-methyl-2-pyrrolyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **61**);
- (±)-7,9-difluoro-5-phenylethynyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **62**);
- 5 (±)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **63**);
 - (-)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **64**);
- (+)-7,9-difluoro-5-(benzo[b]thie-2yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-10 chromeno[3,4-*f*]quinoline (Compound **65**);
 - (±)-7,9-difluoro-5-(5-methyl-2-furyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **66**);
 - (±)-7,9-difluoro-5-(2-benzo[b]furyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **67**);
- (±)-7,9-difluoro-5-[4-(dimethylamino)phenyl]-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **68**);
 - (±)-7,9-difluoro-5-(5-methyl-2-thienyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **69**);

- (±)-7,9-difluoro-5-(5-methoxy-2-furyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **70**);
- (±)-7,9-difluoro-5-(2-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **71**);
- 5 (-)-7,9-difluoro-5-(2-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **72**);
 - (+)-7,9-difluoro-5-(2-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **73**);
- (±)-7,9-difluoro-5-(1-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-10 f]quinoline (Compound **74**);
 - (-)-7,9-difluoro-5-(1-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **75**);
 - (+)-7,9-difluoro-5-(1-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **76**);
- (±)-7,9-difluoro-5-(4,5-dimethyl-2-furyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound 77);
 - (±)-7,9-difluoro-5-(2-methyl-1-propenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **78**);

- (±)-7,9-difluoro-5-(3,4-dimethyl-2-thienyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **79**);
- (±)-7,9-difluoro-5-(3-(3-bromophenyl)phenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **80**); and
- 5 7,9-difluoro-5-(2-methylbenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **81**).
 - 13. A compound according to claim 1, wherein said compound is selected from the group of:
- 7,9-difluoro-5(*Z*)-benzylidene-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-10 *f*]quinoline (Compound **10**);
 - 7,9-difluoro-5(*Z*)-(2-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **12**);
 - 7,9-difluoro-5(*Z*)-(3-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **15**);
- 7,9-difluoro-5(*Z*)-(2,5-difluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound 17);
 - 7,9-difluoro-5(*Z*)-(2-methoxybenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **18**);

7,9-difluoro-5(*Z*)-(2-methyl-5-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **19**);

7,9-difluoro-5(Z)-(3-methyl-4-picolylidene)-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound **20**);

5 7,9-difluoro-5(*Z*)-(2-methoxy-5-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **26**);

7,9-difluoro-5(*Z*)-(3-thienylmethylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **30**);

7,9-difluoro-5(*Z*)-(2-thienylmethylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-10 chromeno[3,4-*f*]quinoline (Compound **31**);

- (±)-7,9-difluoro-5-(3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **34**);
- (-)-7,9-difluoro-5-(4-chloro-3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **38**);
- (±)-7,9-difluoro-5-(3-chlorophenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **41**);
 - (±)-7,9-difluoro-1,2-dihydro-2,2,4,5-tetramethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound 44);

- (±)-7,9-difluoro-5-allyl-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **55**);
- (±)-7,9-difluoro-5-(3-trifluoromethylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **56**);
- 5 (±)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **63**);
 - (-)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **64**);
- (+)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-10 chromeno[3,4-*f*]quinoline (Compound **65**);
 - (-)-7,9-difluoro-5-(2-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **72**);
 - (-)-7,9-difluoro-5-(1-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **75**); and
- 7,9-difluoro-5-(2-methylbenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **81**).

- 14. A compound according to claim 1, wherein said compound is selected from the group of:
- 7,9-difluoro-5(Z)-(2,5-difluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 17);
- 5 7,9-difluoro-5(*Z*)-(2-methyl-5-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **19**);
 - 7,9-difluoro-5(*Z*)-(3-methyl-4-picolylidene)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **20**);
- 7,9-difluoro-5(*Z*)-(2-methoxy-5-fluorobenzylidene)-1,2-dihydro-2,2,4-trimethyl
 5*H*-chromeno[3,4-*f*]quinoline (Compound **26**);
 - (-)-7,9-difluoro-5-(4-chloro-3-methylphenyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **38**);
 - (±)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **63**);
- (-)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **64**);
 - (+)-7,9-difluoro-5-(benzo[b]thien-2-yl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **65**); and

(-)-7,9-difluoro-5-(2-propynyl)-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **72**).

15. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of formula:

5

or

10

15

wherein:

 R^8 is selected from the group of C_1 – C_{12} alkyl, C_1 – C_{12} heteroalkyl, C_1 – C_{12} haloalkyl, C_2 – C_{12} alkenyl, C_2 – C_{12} heteroalkenyl, C_2 – C_{12} haloalkenyl, C_2 – C_{12} alkynyl, C_2 – C_{12} heteroalkynyl, aryl and heteroaryl optionally substituted with one or more substituents independently selected from the group of hydrogen, C_1 – C_4 alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

R⁹ is selected from the group of hydrogen, F, Cl, Br, I, CN, C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, C₂–C₈ alkenyl or cycloalkenyl, C₂–C₈ heteroalkenyl, C₂–C₈ haloalkenyl, C₂–C₈ heteroalkynyl, C₂–C₈ haloalkynyl, aryl and heteroaryl optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

 R^{10} and R^{11} each independently is hydrogen, or C_1 – C_4 alkyl; or a pharmaceutically acceptable salt or prodrug thereof.

5

16. A pharmaceutical composition according to claim 15, wherein R⁸ is selected from the group of C₁-C₈ alkyl, C₁-C₈ heteroalkyl, C₁-C₈ haloalkyl, C₂-C₈ alkenyl, C₂-C₈ heteroalkenyl, C₂-C₈ haloalkenyl, C₂-C₈ alkynyl, C₂-C₈ heteroalkynyl, C₂-C₈ haloalkynyl, aryl and heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁-C₄ alkyl, F, Cl, Br,
15 I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.

- 17. A pharmaceutical composition according to claim 16, wherein R^8 is selected from the group of C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, C_1 – C_4 haloalkyl, C_2 – C_4 alkenyl, C_2 – C_4 heteroalkenyl, C_2 – C_4 haloalkenyl, and C_2 – C_4 alkynyl, C_2 – C_4 heteroalkynyl and C_2 – C_4 haloalkynyl.
- 18. A pharmaceutical composition according to claim 16, wherein R⁸ is selected from the group of aryl and heteroaryl radicals, wherein said aryl and heteroaryl radicals are optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, CN, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.
- 10 19. A pharmaceutical composition according to claim 16, wherein R⁸ is selected from the group of

$$\mathbb{R}^5$$
 \mathbb{R}^4 , \mathbb{R}^5 \mathbb{R}^1 and \mathbb{R}^1

 R^1 and R^2 each independently is selected from the group of hydrogen, F, Cl, Br and C_1 – C_4 alkyl;

15 R^3 through R^5 each independently is selected from the group of hydrogen, F, Cl, and C_1 – C_4 alkyl;

n is 0 or 1; and

Y is selected from the group of O, S, and NR¹⁰.

- 20. A pharmaceutical composition according to claim 15, wherein R⁹ is selected from the group of hydrogen, F, Cl, Br, CN, C₁–C₆ alkyl, C₁–C₆ heteroalkyl, C₁–C₆ haloalkyl, C₂–C₆ alkenyl or cycloalkenyl, C₂–C₆ heteroalkenyl, C₂–C₆
 5 haloalkenyl, C₂–C₆ alkynyl, C₂–C₆ heteroalkynyl, C₂–C₆ haloalkynyl, aryl and heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.
- 21. A pharmaceutical composition according to claim 20, wherein R⁹ is selected from the group of hydrogen, Br, Cl, C₁–C₄ alkyl, C₁–C₄ heteroalkyl, C₁–C₄ haloalkyl, C₂–C₄ alkenyl, C₂–C₄ heteroalkenyl, C₂–C₄ haloalkenyl, C₂–C₄ alkynyl, C₂–C₄ heteroalkynyl, and C₂–C₄ haloalkynyl.
- 22. A pharmaceutical composition according to claim 20, wherein R⁹ is selected from the group of aryl and heteroaryl radicals, wherein said aryl and heteroaryl radicals are optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, CN, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹.

23. A pharmaceutical composition according to claim 22, wherein R⁹ is selected from the group of

R⁶ is selected from the group of hydrogen, F, Cl, Br, C₁–C₄ alkyl, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

R⁷ is hydrogen, F, or Cl;

R¹⁰ and R¹¹ each independently is hydrogen, or C₁-C₄ alkyl;

X is CH or N; and

Y is selected from group of O, S, and NR¹⁰.

10 24. A pharmaceutical composition according to claim 23, wherein R⁹ is

 R^6 is selected from the group of hydrogen, F, Cl, C_1 – C_4 alkyl, OMe, OEt, NHMe, and NMe₂; and

R⁷ is hydrogen, F, or Cl.

(I)

- 25. A pharmaceutical composition according to claim 23, where R⁶ is selected from the group of F, Me, Et, OMe, OEt, SMe, and NMe₂.
- 26. A method of treating an individual having a condition mediated by a progesterone receptor comprising administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 1 to 14.
- 27. A method according to claim 26, wherein said compound is represented by formula (I):

10 wherein:

5

15

 R^8 is selected from the group of C_1 – C_{12} alkyl, C_1 – C_{12} heteroalkyl, C_1 – C_{12} haloalkyl, C_2 – C_{12} alkenyl, C_2 – C_{12} heteroalkenyl, C_2 – C_{12} haloalkenyl, C_2 – C_{12} alkynyl, C_2 – C_{12} heteroalkynyl, aryl and heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C_1 – C_4 alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

or a pharmaceutically acceptable salt or prodrug thereof.

28. A method according to claim 26, wherein said compound is represented by formula (II):

5 wherein:

10

R⁹ is selected from the group of hydrogen, F, Cl, Br, I, CN, C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, C₂–C₈ alkenyl or cycloalkenyl, C₂–C₈ heteroalkenyl, C₂–C₈ haloalkenyl, C₂–C₈ haloalkynyl, aryl and heteroaryl, optionally substituted with one or more substituents independently selected from the group of hydrogen, C₁–C₄ alkyl, F, Cl, Br, I, CN, NO₂, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, OH, OCH₃, OCF₃, CF₃, C(O)CH₃, CO₂CH₃, C(O)NH₂, OR¹⁰, SR¹⁰, and NR¹⁰R¹¹;

or a pharmaceutically acceptable salt or prodrug thereof.

29. A method according to claim 26, wherein said condition is selected from the group of dysfunctional uterine bleeding, dysmenorrhea, endometriosis, leiomyomas (uterine fibroids), hot flushes, mood disorders, meningiomas, hormone-dependent cancers, and female osteoporosis.

- 30. A method of modulating fertility in an individual comprising administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 1 to 25.
- 31. A method of providing contraception in an individual comprising
 administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 1 to 25.
 - 32. A method according to claim 26, wherein said condition is alleviated with female hormone replacement therapy.
- 33. A method of modulating a progesterone receptor in an individual comprising administering a progesterone modulating effective amount of a compound according to any one of claims 1 to 25.
 - 34. A method according to claim 33, wherein said modulation is activation.
 - 35. A method according to claim 34, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a blood plasma concentration of less than 100 nM.

15

36. A method according to claim 34, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a blood plasma concentration of less than 50 nM.

- 37. A method according to claim 34, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a blood plasma concentration of less than 20 nM.
- 38. A method according to claim 34, wherein said compound provides at
 least 50% maximal activation of the progesterone receptor at a blood plasma
 concentration of less than 10 nM.
 - 39. A method of treating an individual having cancer comprising administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 1 to 25.
- 40. A method of determining the presence of a progesterone receptor in a cell or cell extract comprising (a) labeling a compound according to any one of claims 1 to 25; (b) contracting the cell or cell extract with said labeled compound; and (c) testing the contracted cell or cell extract to determine the presence of progesterone receptor.